$1.5<f/EPD<2.1$ [Conditional Expression 9]

$0.4<(t1+t2)/t3<1.3$ [Conditional Expression 10]

$0<|n1-n2|<0.25$. [Conditional Expression 11]

[0095] In an example, f is an overall focal length of the optical imaging system, 2Y is a diagonal length of an imaging plane, Y is ½ of 2Y, 0 is equal to half a field of view of the optical imaging system, R1 is a radius of curvature of the object-side surface of the first lens, R2 is a radius of curvature of an image-side surface of the first lens, f1 is a focal length of the first lens, f3 is a focal length of the third lens, f6 is a focal length of the sixth lens, EPD is an entrance pupil diameter (EPD), t1 is a thickness at an optical axis center of the first lens, t2 is a thickness at an optical axis center of the second lens, t3 is a thickness at an optical axis center of the third lens, n1 is a refractive index of the first lens, and n2 is a refractive index of the second lens.

[0096] The optical imaging system satisfying the above Conditional Expressions 1 through 11 may be miniaturized, and may allow high resolution images to be realized.

[0097] Next, optical imaging systems, according to several embodiments, will be described.

[0098] An optical imaging system, according to a first embodiment, will be described with reference to FIG. **1**.

[0099] The optical imaging system **100**, according to the first embodiment, includes an optical system including a first lens **110**, a second lens **120**, a third lens **130**, a fourth lens **140**, a fifth lens **150**, and a sixth lens **160**.

[0100] The optical imaging system **100** includes a filter **170**, an image sensor **180**, and a stop ST. The filter **170** is disposed between the sixth lens **160** and the image sensor **180**, and the stop ST is disposed between the second lens **120** and the third lens **130**.

[0101] In an embodiment, the first lens **110** has a negative refractive power, and an object-side surface thereof is concave and an image-side surface thereof may be convex. The second lens **120** has a positive refractive power, and an object-side surface thereof is concave and an image-side surface thereof is convex. The third lens **130** has a positive refractive power, and an object-side surface and an image-side surface thereof are convex. The fourth lens **140** has a negative refractive power, and an object-side surface thereof is convex and an image-side surface thereof is concave. The fifth lens **150** has a positive refractive power, and an object-side surface thereof is convex and an image-side surface thereof is convex. The sixth lens **160** has a negative refractive power, and an object-side surface thereof is convex and an image-side surface thereof is concave. In addition, inflection points are formed on both surfaces of the sixth lens **160**.

[0102] The optical imaging system configured as described above may represent aberration characteristics as illustrated in FIG. **2**. FIGS. **3** and **4** are tables displaying characteristics of lenses and aspherical characteristics of the optical imaging system, according to the first embodiment.

[0103] An optical imaging system, according to a second embodiment, will be described with reference to FIG. **5**.

[0104] The optical imaging system **200**, according to the second embodiment, includes an optical system including a first lens **210**, a second lens **220**, a third lens **230**, a fourth lens **240**, a fifth lens **250**, and a sixth lens **260**.

[0105] The optical imaging system **200** includes a filter **270**, an image sensor **280**, and a stop ST. The filter **270** is disposed between the sixth lens **260** and the image sensor **280**, and the stop ST is disposed between the second lens **220** and the third lens **230**.

[0106] In an embodiment, the first lens **210** has a negative refractive power, and an object-side surface thereof is concave and an image-side surface thereof may be convex. The second lens **220** has a negative refractive power, and an object-side surface thereof is concave and an image-side surface thereof is convex. The third lens **230** has a positive refractive power, and an object-side surface and an image-side surface thereof are convex. The fourth lens **240** has a negative refractive power, and an object-side surface thereof is convex and an image-side surface thereof is concave. The fifth lens **250** has a positive refractive power, and an object-side surface thereof is concave and an image-side surface thereof is convex. The sixth lens **260** has a negative refractive power, and an object-side surface thereof is convex and an image-side surface thereof is concave. In addition, inflection points are formed on both surfaces of the sixth lens **260**.

[0107] The optical imaging system configured as described above may represent aberration characteristics as illustrated in FIG. **6**. FIGS. **7** and **8** are tables displaying characteristics of lenses and aspherical characteristics of the optical imaging system, according to the second embodiment.

[0108] An optical imaging system, according to a third embodiment, will be described with reference to FIG. **9**.

[0109] The optical imaging system **300**, according to the third embodiment, includes an optical system including a first lens **310**, a second lens **320**, a third lens **330**, a fourth lens **340**, a fifth lens **350**, and a sixth lens **360**.

[0110] The optical imaging system **300** includes a filter **370**, an image sensor **380**, and a stop ST. The filter **370** is disposed between the sixth lens **360** and the image sensor **380**, and the stop ST is disposed between the second lens **320** and the third lens **330**.

[0111] In an embodiment, the first lens **310** has a negative refractive power, and an object-side surface thereof is concave and an image-side surface thereof may be convex. The second lens **320** has a negative refractive power, and an object-side surface thereof is concave and an image-side surface thereof is convex. The third lens **330** has a positive refractive power, and an object-side surface and an image-side surface thereof are convex. The fourth lens **340** has a negative refractive power, and an object-side surface thereof is convex and an image-side surface thereof is concave. The fifth lens **350** has a positive refractive power, and an object-side surface thereof is concave and an image-side surface thereof is convex. The sixth lens **360** has a negative refractive power, and an object-side surface thereof is convex and an image-side surface thereof is concave. In addition, inflection points are formed on both surfaces of the sixth lens **360**.

[0112] The optical imaging system configured as described above may represent aberration characteristics as illustrated in FIG. **10**. FIGS. **11** and **12** are tables displaying characteristics of lenses and aspherical characteristics of the optical imaging system, according to the third embodiment.

[0113] An optical imaging system, according to a fourth embodiment, will be described with reference to FIG. **13**.

[0114] The optical imaging system **400**, according to the fourth embodiment, includes an optical system including a